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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.69	2	2
8	RMC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	38.75	8	8

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-11-23-46 **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03
Agency	:	Sri Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-09/W O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 08-08-19

Lab ID	:	CP-2020-11-23-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO.48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2019

Lab ID	:	CP-2020-11-23-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS). NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-19
Customer ID	:	Drain side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	150.97 X 151.66 X 149.68	22895	8.892	417.3	18.2	18.7
2	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	151.73 X 149.91 X 149.11	22747	8.570	430.2	18.9	
3	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	149.47 X 150.22 X 149.85	22453	8.193	426.3	19.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/08/2019

Lab ID	:	CP-2020-11-23-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/08/2019	17/08/2019	150.39 X 150.45 X 150.23	22626	8.149	291.6	12.9	12.6
2	PCC	M15	10/08/2019	17/08/2019	149.87 X 150.83 X 151.40	22606	8.982	285.2	12.6	
3	PCC	M15	10/08/2019	17/08/2019	151.98 X 150.67 X 150.02	22899	8.586	278.2	12.1	

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/08/2019

Lab ID	:	CP-2020-11-23-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-19
Customer ID	:	Drain side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	149.76 X 150.27 X 150.47	22504	8.892	421.2	18.7	18.5
2	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	150.29 X 151.46 X 150.94	22764	8.570	424.9	18.7	
3	Drain side Wall Concrete	M20	06/08/2019	13/08/2019	149.28 X 150.52 X 149.65	22470	8.193	409.1	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-11-23-46** **Date: 09/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	149.83 X 150.31 X 150.83	22521	8.892	420.3	18.7	18.7
2	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	150.85 X 151.94 X 151.83	22920	8.570	432.6	18.9	
3	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	150.69 X 149.34 X 150.51	22504	8.193	417.9	18.6	

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-11-23-46 **Date: 12-07-19**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.

Agency : Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/ /2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 10-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	CP-2020-11-23-46 **Date: 31-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-07-19

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-11-23-46** **Date: 09/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO.48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	149.95 X 149.81 X 149.82	22465	8.892	414.9	18.5	18.4
2	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	150.38 X 149.17 X 150.09	22433	8.570	405.6	18.1	
3	Drain Bottom Slab Concrete	M20	02/08/2019	09/08/2019	151.08 X 149.42 X 151.07	22575	8.193	420.5	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/08/2019

Lab ID	:	CP-2020-11-23-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO.48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/08/2019	30/08/2019	151.06 X 151.25 X 150.89	22848	8.907	539.1	23.6	23.1
2	Drain Bottom Slab Concrete	M20	02/08/2019	30/08/2019	149.94 X 151.11 X 149.07	22657	8.977	502.4	22.2	
3	Drain Bottom Slab Concrete	M20	02/08/2019	30/08/2019	150.49 X 150.49 X 150.61	22648	8.814	532.7	23.5	

* The results obtained are satisfactory as per standard requirements

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-11-23-46** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	354	354	2.4	97.6	90-100
3	20 mm	7149	7503	50.0	50.0	30-70
4	10 mm	4526	12029	80.2	19.8	10-35
5	4.75 mm	2388	14417	96.1	3.9	0-5
6	Pan	583	15000	100.0	0	---

CIVIL PRO Sig. Date GALORE

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-11-23-46** **Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Drain at Best County-III and Surrounding Areas in Ward No 03.
Agency	:	Sri.Vijayakumar R (C K CONSTRUCTIONS), NO:48/5, C Block, Sahakaranagar, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/ /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	2217	2402	48.0	52.0	25-55
4	4.75 mm	2344	4746	94.9	5.1	0-10
5	Pan	254	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-11-23-46** **Date: 12-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ ಬಿ ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

End of Report

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